

Mouse RAGE/AGER Monoclonal Antibody | anti-AGER antibody

Anti-RAGE/AGER Antibody Picoband (monoclonal, 5C6C1)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126927	Mouse	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

RAGE/AGER; Monoclonal Antibody; Anti-RAGE/AGER Antibody Picoband (monoclonal; 5C6C1); anti-AGER antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	5C6C1
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-AGER antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human RAGE (91-120aa IQDEGIFRCQAMNRNGKETKSNYRVRVYQI), different from the related mouse and rat sequences by six amino acids.
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of Jurkat cells using anti-RAGE/AGER antibody (AAA126927). Overlay histogram showing Jurkat cells stained with AAA126927 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-RAGE/AGER Antibody (AAA126927, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-mouse IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of RAGE/AGER using anti-RAGE/AGER antibody (AAA126927). RAGE/AGER was detected in a paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-RAGE/AGER Antibody (AAA126927) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



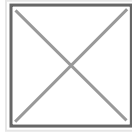
IHC (Immunohistochemistry)

Figure 3. IHC analysis of RAGE/AGER using anti-RAGE/AGER antibody (AAA126927). RAGE/AGER was detected in a paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-RAGE/AGER Antibody (AAA126927) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of RAGE/AGER using anti-RAGE/AGER antibody (AAA126927). RAGE/AGER was detected in a paraffin-embedded section of mouse lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-RAGE/AGER Antibody (AAA126927) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of RAGE/AGER using anti-RAGE/AGER antibody (AAA126927). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat lung tissue lysates, Lane 2: mouse lung tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-RAGE/AGER antigen affinity purified monoclonal antibody (#AAA126927) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for RAGE/AGER at approximately 43 kDa. The expected band size for RAGE/AGER is at 43 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-AGER antibody	The receptor for advanced glycation end products (RAGE) is a multi-ligand member of the immunoglobulin superfamily of cell surface molecules. It interacts with distinct molecules implicated in homeostasis, development and inflammation, and certain diseases such as diabetes and Alzheimer's disease. RAGE is also a central cell surface receptor for amphoterin and EN-RAGE. And RAGE is associated with sustained NF-kappaB activation in the diabetic microenvironment and has a central role in sensory neuronal dysfunction. Moreover, RAGE propagates cellular dysfunction in several inflammatory disorders and diabetes, and it also functions as an endothelial adhesion receptor promoting leukocyte recruitment.
Product Categories/Family for anti-AGER antibody	Primary Antibodies, Mouse Monoclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	332800988
NCBI GeneID	177
NCBI Accession #	NP_001193895.1
NCBI GenBank Nucleotide #	NM_001206966.1
UniProt Accession #	Q15109 ; Q15279 ; Q3L1R7 ; Q86SN1 ; Q9H2X7 ; Q9Y3R3 ; A2BFI7 ; A6NKF0 ; B0V176
Molecular Weight	42,803 Da
NCBI Official Full Name	advanced glycosylation end product-specific receptor isoform 6
NCBI Official Synonym Full Names	advanced glycosylation end product-specific receptor
NCBI Official Symbol	AGER

NCBI Official Synonym Symbols	RAGE
NCBI Protein Information	advanced glycosylation end product-specific receptor; RAGE isoform sRAGE-delta; RAGE isoform NtRAGE-delta
UniProt Protein Name	Advanced glycosylation end product-specific receptor
UniProt Gene Name	AGER
UniProt Synonym Gene Names	RAGE
UniProt Entry Name	RAGE_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/rage-ager-antibody-clone-5c6c1-flow-cytometry-immunohistochemistry-western-blot-elisa/126927>